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TITLE : METHOD FOR IMPROVING FREEZE-RESISTANCE OF FARM CROP

ABSTRACT : PURPOSE: To improve the freeze-resistance of farm crops such as tea, leaf vegetables, root vegetables and fruits by applying an alginic acid oligosaccharide to the plant or the soil.

CONSTITUTION: An alginic acid oligosaccharide composition composed of gluronic acid and/or mannuronic acid and having a degree of polymerization of 2-20 is directly applied to a crop or applied to soil. In the case of a winter- harvesting crop such as cabbage, the composition is applied preferably during the period from the sowing to a nursery bed to the transplantation to a paddy field or at the transplantation or before the start of head formation. For a crop susceptible to frost injury, the composition is preferably applied 1-2 months before the sprouting of new sprout or the period having frost injury risk. The concentration is preferably 100-1,000ppm in the case of applying the composition in liquid form e.g. by irrigation and the rate of application is preferably 1-7.5kg per 1ha in terms of solid.

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